

## C L A I M S

1. A collagen preparation for the controlled release of active substances characterized in that it has mixtures of acid-insoluble collagens with different molecular weight distributions.

2. The collagen preparation according to claim 1 characterized in that the collagen preparation comprises different active substances.

3. The collagen preparation according to claim 1 or 2 characterized in that it comprises adjuvants, such as viscosity regulators, binders, humectants, softening agents, penetration enhancers, preservatives, disinfectants, pH-regulators, antioxidants, active substance stabilizers, oils, fats, waxes, emulsion stabilizers, odorous substances, dyes, and/or inert fillers.

① 4. The collagen preparation according to any one of claims 1 to 3 characterized in that the insoluble collagen is telopeptide-free, native, uncross-linked Type-1 collagen.

① 5. The collagen preparation according to one or several of claims 1-4 characterized in that the insoluble collagen is a product obtained from calfskin by alkaline decomposition.

① 6. The collagen preparation according to one or several of claims 1 to 5 characterized in that the embodiments of the collagen preparations are powders, dusts, microparticles, fibers, flakes, foams, sponges, needles, small rods, tablets, gels, creams, single-layer films, or laminates.

① 7. The collagen preparation according to one or several of the preceding claims characterized in that the collagen preparation

comprises combinations of different embodiments in order to obtain a desired kinetics of active substance release.

- ① 8. The collagen preparation according to one or several of the preceding claims characterized in that it is bioadhesive.
- ① 9. A process for the production of the collagen preparation according to one or several of the preceding claims, characterized in that it is manufactured by spray drying, freeze-drying, coating or casting with subsequent drying, phase separation and coacervation processes, compression, or filling into containers.
- ① 10. The process according to claim 9 characterized in that the active substance release is influenced and controlled by the mixing ratio of acid-insoluble collagens having different molecular weight distributions.
- ① 11. The process according to claim 9 or 10 characterized in that the active substance release can be controlled by dissolution or swelling and erosion of the collagen preparation.
- ① 12. The process according to claim 9 or 10 characterized in that the active substance release can be controlled by the biodegradation of the collagen preparation.
- ① 13. The use of the collagen preparation according to one or several of claims 1-7 for the controlled release of active substances to wounds.
- ① 14. The use of the collagen preparation according to one or several of claims 1-8 for the controlled release of active substances to intact skin.

15. The use of the collagen preparation according to one or several of claims 1-8 for implanting or injecting active substances into a living organism.

add a'z